Jordan University of Science and Technology

Faculty of Science & Arts

Basic Sciences And Humanities Department

HSS103BT General Biology
First Semester 2023-2024

Course Catalog
3 Credit Hours.

Text Book	
Title	Biology
Author(s)	Campbell NA, Urry LA, Cain ML, Wasserman SA, Minorsky PV & Reece JB.
Edition	12th Edition
Short Name	reference 1
Other Information	2021

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Class Schedule & Room

Section 1:
Lecture Time: Sun, Tue, Thu : 08:30 - 09:30
Room: NURSING HALL

Section 2:
Lecture Time: Sun, Tue, Thu : 09:30 - 10:30
Room: مدرج عرار

Section 3:
Lecture Time: Sun, Tue, Thu : 12:30 - 13:30
Room: مدرج عرار

Section 4:
Lecture Time: Sun, Tue, Thu : 12:30 - 13:30
Room: SB19

Section 5:
Lecture Time: Sun, Tue, Thu : 13:30 - 14:30
Room: SB13

Section 6:
Lecture Time: Mon, Wed : 08:30 - 10:00
Room: مدرج عرار

Section 7:
Lecture Time: Mon, Wed : 10:00 - 11:30
Room: NURSING HALL

Section 8:
Lecture Time: Mon, Wed : 08:30 - 10:00
Room: SB13

Section 9:
Lecture Time: Sun, Tue, Thu : 13:30 - 14:30
Room: NG76

Tentative List of Topics Covered		
Weeks	**Topic**	**References**
Weeks 1, 2	The Structure and Function of Large Biological Molecules	**Chapter 5** From **reference 1**
Weeks 2, 3	A Tour of the Cell	**Chapter 7** From **reference 1**
Week 4	Membrane Structure and Function	**Chapter 8** From **reference 1**
Week 5	Cellular Respiration and Fermentation	**Chapter 10** From **reference 1**
Week 6	The Cell Cycle	**Chapter 12** From **reference 1**
Week 7	Meiosis and Sexual Life Cycles	**Chapter 13** From **reference 1**
Week 8	Mendelian Genetics	**Chapter 14** From **reference 1**

Week 9	Molecular basis of Inheritance	**Chapter 16** From **reference 1**
Week 10	Animal Nutrition [Mammalian]	**Chapter 42** From **reference 1**
Weeks 11, 12	Circulation and Gas Exchange [Mammal]	**Chapter 43** From **reference 1**
Weeks 13, 14	The Immune System	**Chapter 47** From **reference 1**

Mapping of Course Outcomes to Program Outcomes	Course Outcome Weight (Out of 100%)	Assessment method
Describe the structure, characteristics and functions of carbohydrates, lipids, proteins and nucleic acids. [1A]	10%	First Exam
Become familiar with basic unit of life, how prokaryotes and eukaryotes are different and identify organelles and structures in animal and plant cells and how they differ from each other. [1A]	10%	First Exam
Analyze and explain the processes associated with and the role of the cell membrane in the processes of osmosis, diffusion and transport. [1A]	10%	First Exam
Explain how metabolic pathways are performed in plants and animals in the form of cellular respiration. [1A]	10%	Second Exam
Describe the molecular bases of cell cycle and how mitosis and meiosis are differentiated in addition to their goals and outcomes. [1A]	20%	Second Exam
Define and apply the principles of Mendelian genetics and its modern extensions to the unity and diversity of life [1A]	15%	Final Exam
Understand the molecular and chromosomal basis of heredity [1A]	10%	Final Exam
Describe the anatomical structure and physiological functions of tissues and organ systems of the human body [1A]	15%	Final Exam

Relationship to Program Student Outcomes (Out of 100%)					
A	B	C	D	E	F
100					

Evaluation	
Assessment Tool	**Weight**
First Exam	30%
Second Exam	30%
Final Exam	40%

Policy

course policies and grade information	Grades and exams information ? The course final grade will be based on the First (30%), Second (30%) and Final (40%) exams. ? All exams are computer-based comprising of multiple-choice questions. ? Some of the exam questions are based on figures and images. ? All exams will be administered according to the University's exam schedule. ? All exam questions will be based on information found in the textbook. E-learning The course is partially supported by E-learning, a web-based program that enables you to access PowerPoint slides and course announcements. As a registered student in this course, you have access to the e-learning site at www.ejust.org. Course policies 1. Your class attendance is mandatory. Exceeding 20% absences of the total lecture hours will lead to your removal from the course with a failing grade. 2. Attendance registration will be conducted at the end of each lecture. The instructor will display a QR code that can be scanned using your cellphone or tablet. Please ensure that your cellphone or tablet is functioning properly and that you have internet access to log into your student services. 3. Make-up exam appeals should be filed within ONE WEEK of the missed exam. 4. Cell phones are prohibited during examinations and must be turned off during lecture. No incoming or outgoing calls or text messages are allowed. 5. Unethical conduct, including cheating during examinations, will result in punishment by the university administration. 6. Switching between the course sections is not permitted

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